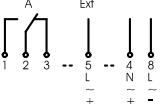
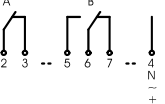


	Connection diagram		Directory 1. Safety instructions 2. Initial operation 3. Menu overview 4. Symbol legend 5. Key function 6. Handling advice 7. Channel ON OFF / Permanent P 8. New Program 9. Example „New Program“ 10. Program permanent 11. Pulse 12. Cycle 13. Cycle options 14. Astro-function 15. Astro-adjustments 16. External Input 17. Channel keys 18. Switchoff warning 19. Additional adjustments 20. Program modify 21. Data-key	1. Safety instructions ⚠ The installation and assembly of electrical equipment must be only carried out only by a skilled Person! Otherwise fire danger or danger of an electric shock exists! ⚠ Connect the supply voltage/frequency as stated on the product label! ⚠ Warranty void if housing opened by unauthorised person! ⚠ The electronic circuit is protected against a wide range of external influences. Incorrect operating may occur if external influences exceed certain limits!	2. Initial operation ■ The time switch is delivered in sleep-mode, the display is switched off. ■ Press OK -button for 1 second. ■ The current date and time is already programmed and European daylight savings time is activated. ■ Select the desired language by pressing [+/-] -buttons and confirm it by pressing OK . <i>(Remark: By pressing [M] you move one step backwards from the current position)</i> ■ If required, date, time and daylight savings time mode can be adjusted also by pressing [+/-] -buttons and a subsequent confirmation with OK . Further adjustments when operating an astro time switch: ■ When using the astro function it is obligatory to enter the geographical position of the place of the installation of the device. Choose with [+/-] -buttons between „location“ (pre-defined cities) and „position“ (longitude and latitude). Confirm your choice again with OK . (The easiest way is choosing a pre-defined city within the „locations“-menu.) ■ Enter the nearest city or the geographical coordinates with [+/-] -buttons and confirm with OK .
	1 channel 	2 channels 			

3. Menu overview

18.06.2007
Monday
On AI Off B
GUP GUP
9:28 00
1234567 PROG

M - + OK
K- A B ->

M

Program

PROC

M - + OK

OK

new Program

Program query

Program modify

Program delete

Program copy

end

M - + OK

Adjustmen

✓

M - + OK

OK

Date-Time

Summertim

Astro *

Language

Factory Defaults

end

M - + OK

Options

◇

M - + OK

OK

Counter

Cycle **

PIN-Code

Input

Switchoff warning

channel-keys

end

M - + OK

end

M - + OK

Automatic-Mode

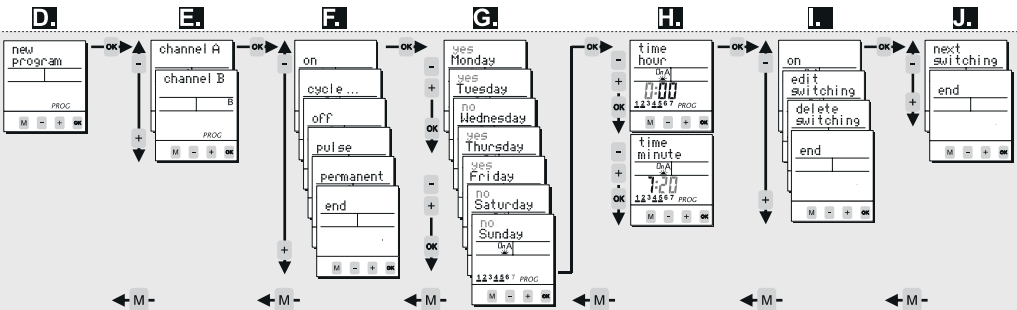
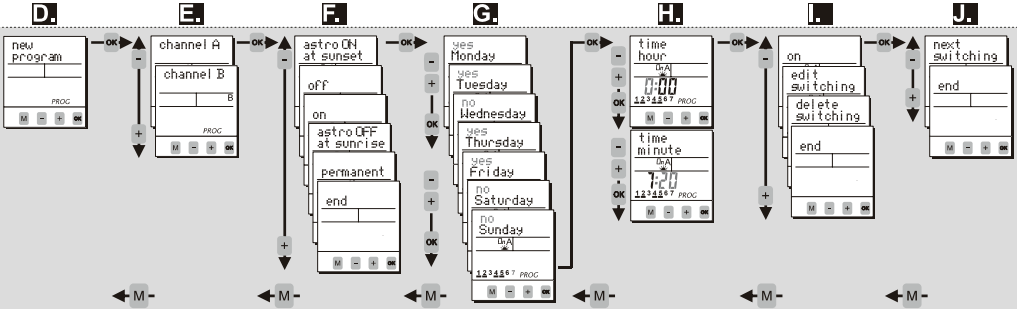
Menu Enter-Mode

*Within astro time switches

**Within standard (non-astro) time switches

4. Symbol legend	
	Channel is switched ON
	Channel is switched OFF
	For the current date the "holiday program" / "permanent by date" is activated
	Standard programming step
	Current state is based on a manual over-ride. The state will be cancelled with the next programming step.
P	Current state is based on a manual over-ride. The state is permanent until terminated manually (7 / 17).
1234567	Days of the week Monday, Tuesday, ... Sunday; The underscores indicate if the program is active for the days above.
	Element within sub-menu "program delete"
	*Astro function: Current state is based on a sunrise or sunset taking into account an optionally adjusted Offset (14 / 15).
	**Current state is based on a switching time with pulse function
	**Current state is based on a switching time with cycle function
	***Is displayed if the corresponding channel is activated by the external input.
	The time switch is locked; to unlock the device the PIN has to be entered (19).

5. Key function		6. Handling advice	7. Channel ON OFF / Permanent P
	1. To access the Enter-mode (program, adjustments, options) from the automatic-mode. 2. To revert to the beginning of the current (sub-) menu.	■ The time switch is programmable without external power supply after pressing the OK -button. ■ To revert one step or one level back while in the Enter-Mode press [M]. ■ After completion of a (sub-) menu confirming end will return the device into the automatic-mode. ■ With [+/-] the choice changes from end to continue. By confirming continue the time switch returns to the beginning of the current (sub-) menu. ■ When confirming end before completion, the time switch returns to the automatic-mode without saving the entered data.	<u>Channel ON OFF</u>
	1. To adjust the flashing digit. 2. To scroll through a choice		By pushing [A/B] -buttons ([+/-] -buttons) a manual switch of the channels take place. The resulting switching status is marked with the hand-symbol and remains until the next programming step occurs. (temporary over-ride)
	1. Automatic-mode: To switch the channel ON or OFF until the next programming step occurs. 2. Automatic-mode: A push longer than 3 sec. = Permanent switching status (7).		<u>Permanent switching status P</u>
	1. To activate the time switch when operated without power supply. 2. To confirm the selection or the entered data.		By pressing the corresponding channel button [A/B] for more than 3 sec. the channel is permanently switched ON or OFF. The status remains until the next manual switching occurs (> 3 sec.). (permanent over-ride)

8. New Program (See also the example (9)) Step A. to C. please refer to point 9. (Example "New Program") Menu navigation of the programming of a switching time (standard (non-astro) time switch) 		9. Example „New Program“ (For a regular switching time) A. If power supply is disconnected press OK for one second. The display appears in Automatic-Mode. B. Press [M] , the time switch is now in the Enter-Mode. C. Confirm Program with OK . D. Confirm new program with OK . E. Choose the desired channel with [+/-] and confirm with OK . F. For regular switching times choose on or off with [+/-] -buttons and confirm with OK . (The astro switching times astro ON or astro OFF please refer to point 14 / 15) G. Within this level you activate the days of the week (1...7) on which the switching time should happen. With [+/-] you activate "yes" or deactivate "no" the corresponding date. Confirm each day with OK . H. Adjustment of the time: Hours [+/-] and OK . Minutes [+/-] and OK . I. Verify the entered switching time: If the flashing summary of the programming step is correct, verify on or off with OK . After verification you have the choice between edit/delete and end with [+/-] . J. If you want to proceed with programming, confirm next switching with OK . To leave the programming menu confirm end . ⓘ Programming of a switching time with pulse function see point 11 ⓘ Programming of a switching time with recycle function see point 12 / 13 (not within astro time switches) ⓘ Programming of a astro-switching time see point 14 / 15 (only within astro time switch)	
Menu navigation of the programming of a standard or astro switching time (astro time switch) 			

ⓘ Pulse and recycle function are not available within time switches with astro function.

10. Program permanent Program -> new program -> channel A/B -> permanent -> ... ■ One permanent by date programming step (holiday function) for each channel is possible. During the desired period (The function is valid for the whole days) the channel can be switched off (permanent off) or on (permanent on). ■ The programming of this function is as described in (8 / 9). ■ The choice permanent will not be offered anymore within the menu new program when already in use. The switching time can be modified and deleted within Program modify (20) and Program delete (19) respectively.	11. Pulse Program -> New program -> Channel A/B -> [P] The pulse function provides you the opportunity of programming a switching time with a defined duration. As soon as the pulse-duration has expired the time switch switches OFF automatically (the duration of the pulse is up to 59:59 mm:ss). The programming is carried out like a standard switching time (see point 8 / 9) with following differences ■ Choose Pulse function (9F). ■ Define the duration of the pulse (pulstime minute / pulstime second). ■ Program the days of the week ■ Program the switching time (time hour / time minute) ■ Validation: Confirm the blinking summary of the pulse program
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*Within astro time switches

**Within standard (non-astro) time switches

***One-channel version

13. Cycle options**

Options -> Cycle -> Cycle 1 - 4 -> ...

You have the possibility to define 4 different Cycles. For these purposes choose menu **Options** and sub-menu **Cycle**. The different cycles can be activated, defined or deactivated (the max. value for pulse or pause is 9:59:59 h:mm:ss):

- Choose menu **Options** and sub-menu **Cycle** and confirm with **OK**.
- Select with **[+/-]**-buttons one out of the 4 cycles (**Cycle 1 – Cycle 4**) and confirm with **OK**.
- Activate the cycle by changing **No** to **Yes** with **[+/-]**-buttons and subsequent confirming with **OK**.
- Define duration of the pulse „**on-time**“ (**[=+] → OK ...**).
- Define duration of the pause „**off time**“ (**[=+] → OK ...**).
- Confirm **End** with **OK**.

- ## 14. Astro-function*

15. Astro-adjustments*

The following options concerning the astro function are adjustable to satisfy your needs:

- **Position location:** Adjust your geographical position with pre-defined choice of regions/countries and cities.
- **Position coordinates:** Adjust your geographical position with longitude, latitude and time zone.
- **Block Sunrise:** Earliest possible point in time for the astro function (sunrise).
- **Block Sunset:** Latest possible point in time for the astro function (sunset), e.g. switching on the light not later than 10 p.m. even if sunset is later.

OK Channels which should not

- Menu **Channel-keys**
- Furthermore you can choose the
- OK. Channels which should not
-
- ```
graph LR; Input[Input] -- "OK -" --> Pushbutton[with pushbutton]; Pushbutton -- "OK -" --> Switch[with switch]; Switch -- "OK +" --> ChannelA[channel A yes/no]; ChannelA -- "OK" --> End[end];
```

- Furthermore you can choose the **OK** Channels which should not

Furthermore you can choose the

 Channels which should not

- OK** Channels which should not

- output channel when the external  
versa.

---

function to a channel, this switching function will occur if you push the channel-button on the front plate of the time channel is activated and a signal is applied to the input, as explained under point 16). For each channel one out of the

- g) : By pressing the channel key (or optionally using the external input) the switching status changes from **ON** to **OFF** or standard manual over-ride of the channel.
- h) : By pressing the channel key (or optionally using the external input) the Timer starts and the corresponding channel switches **ON**. After the expiry of time the channel switches **OFF**. If the channel receives another signal before the expiry of time the time switch reacts as follows:
- If the channel is already **ON** = Timer stops and the channel switches **OFF**.
  - If the channel is **OFF** = Timer restarts/ Staircase lighting timer -> Resettable.
- i) : By pressing the channel key (or optionally using the external input) the cycle function starts. **Attention:** This function is only available if the channel is already **ON** and the advance within menu **Options** and submenu **Cycle**. **Astro time-switches do not have the cycle feature!!!**
- j) : By pressing the channel key (or optionally using the external input) the channel switches permanently **ON**. This status remains active until the channel key is pressed again.
- k) : By pressing the channel key (or optionally using the external input) the channel switches permanently **OFF**. This status remains active until the channel key is pressed again.

